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WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,

and

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah State University, U.S. National Park Service, U.S. Geological Survey; and other Federal, State, and private organizations.

AS OF
FEB. 1, 1968

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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Issued by

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ADMINISTRATOR
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STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES

|||||
Report prepared by

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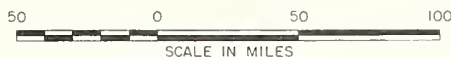
SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
FEDERAL BLDG., ROOM 4012
SALT LAKE CITY UTAH 84111

PROSPECTIVE WATER SUPPLIES

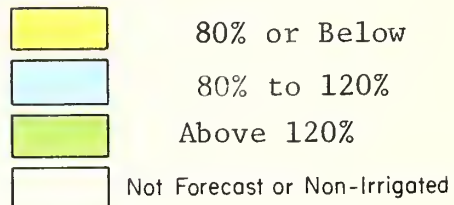
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

FEBRUARY 5, 1968

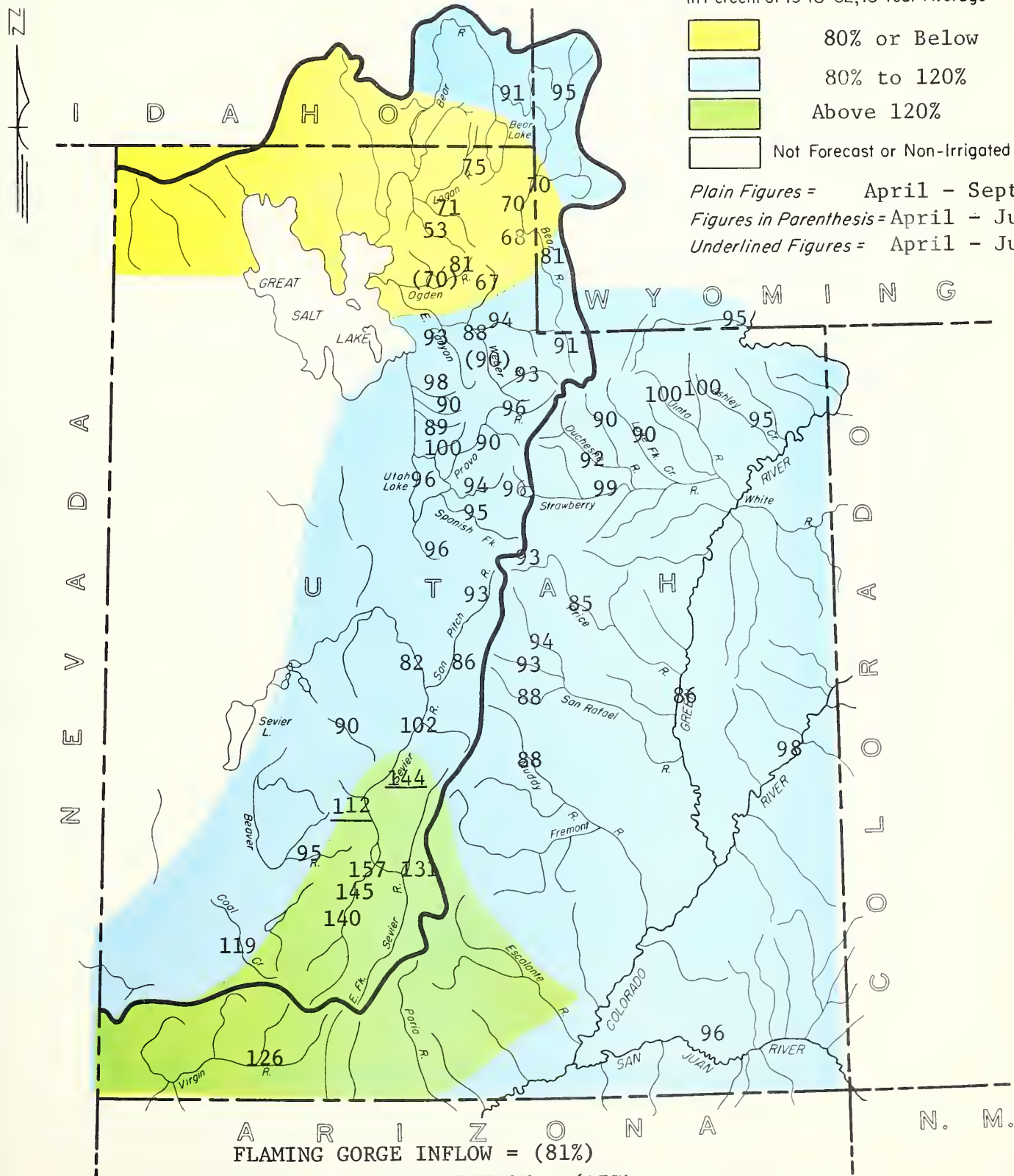
Approximate Date



FORECAST STREAM FLOW
in Percent of 1948-62, 15 Year Average



Plain Figures = April - Sept.
Figures in Parenthesis = April - July
Underlined Figures = April - June



FLAMING GORGE INFLOW = (81%)

NAVAJO RESERVOIR INFLOW = (97%)

LAKE POWELL INFLOW = (98%)

WATER SUPPLY OUTLOOK

FEBRUARY 1, 1968

* Considering current streamflow prospects and carryover reservoir*
* storage supplies, the outlook for next summer's water supply is *
* fairly good for most of the state. It is excellent on the upper*
* Sevier and Virgin rivers in the south, but is not so favorable *
* in the north from near Ogden to the Idaho border. Here streams *
* are expected to produce about 20% to 30% less than they ordinar-*
* ily do. *

Snowpack accumulation in the mountains during January was considerably less than usual on most watersheds, generally ranging from about one third to two thirds of average. Although this has reduced streamflow prospects for next summer, most streams in the state are still expected to yield from about 90% to average amounts.

The stream with the poorest outlook in the state is the Little Bear river in Cache Valley, where only 53% of average flow is anticipated. Forecasts vary from about 65% to 80% of average for other streams in Cache Valley, the Ogden river, Lost Creek near Croydon and Bear river tributary streams in Rich County.

In central Utah, anticipated inflow to Sevier Bridge reservoir could be more favorable. Here, the April-September inflow is expected to be 82% of the 1948-1962 fifteen year average. The lower forecast here is due principally to a ground water carryover effect from last year's below average water supply.

The outlook is excellent for southern Utah streams which head near Cedar Breaks and Bryce Canyon. Forecasts here range from about 120% to 160% of average, and include the following streams: the Virgin river, the main and east forks of the Sevier river, including inflow from Kingston to Vermillion Dam, the Escalante and Paria rivers and smaller streams near Cedar City.

April-July inflow to Lake Powell and Flaming Gorge reservoirs is forecast at 98% and 81%, respectively, of their 1948-62 average amounts.

The U.S. Geological Survey reports that storage in the 14 principal reservoirs of the state(excluding those of the Colorado River Storage project) was 119% of average. In the Sevier river basin, the three principal reservoirs(Otter Creek, Piute and Sevier Bridge) contained 96% of average storage.

Since there is still another 40% to 45% of the average season's maximum snowpack yet to come during February and March, and considering April and May storms, a considerable change may yet take place in the water supply picture for next summer.

WATER SUPPLY OUTLOOK (continued)

RESERVOIR STORAGE (1,000 Ac. Ft.)

BASIN or STREAM	RESERVOIR	USABLE CAPACITY	MEASURED (FIRST OF MONTH)		
			THIS YEAR	LAST YEAR	AVERAGE ^a
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1062.5	1059.0	883.7
	Woodruff Narrows	26.5	24.1	15.5c	- -
<u>Beaver River</u>	Rocky Ford	23.3	14.2	7.6	10.7
<u>Little Bear</u>	Hyrum	15.3	10.5	10.3	10.1
	Porcupine	11.3	4.5	1.6c	- -
<u>Ogden</u>	Causey	7.1	3.4	0.2	- -
	Pineview	110.1	53.2	43.3	8.9
<u>Provo</u>	Deer Creek	149.7	104.5	86.0	91.4
<u>Sevier River</u>	Gunnison	18.2	9.9	3.4	- -
	Otter Creek	52.5	26.0	14.0	23.3
	Piute	71.8	49.3	44.5	31.7
	Sevier Bridge	236.0	65.3	55.4	92.2
<u>Spanish Fork</u>	Strawberry	265.4	124.5	93.2	133.0
<u>Utah Lake</u>	Utah Lake	**883.9	681.3	593.4	595.6
<u>Weber</u>	East Canyon	48.1	36.3	13.4	12.4
	Echo	73.9	24.4	45.5	26.8
	Lost Creek	20.0	9.6	0.0	- -
	Rockport	60.9	46.9	13.6	15.1*
	Willard Bay	198.2	103.4	96.0	- -
COLORADO RIVER DRAINAGE					
<u>Ashley Creek</u>	Steinaker	33.3	26.2	22.2	- -
<u>Colorado</u>	Blue Mesa	940.8d	384.0	366.0	- -
	Lake Powell	27000.0d	8137.0	7660.4	- -
<u>Green</u>	Flaming Gorge	3789.0d	2164.9	2165.2	- -
<u>Lake Fork</u>	Moon Lake	35.8	21.4	14.0c	13.0
<u>Price River</u>	Scofield	65.8	45.7	36.6	18.5
<u>San Rafael</u>	Joes Valley	54.6	17.0	1.9	- -
<u>San Juan</u>	Navajo	1709.0d	592.3	397.4	- -

* - Average for 1957-62 Inclusive

** - Taken at compromise point

All data contained in this table supplied by the U.S. Geological Survey.

(a) 1948-62 average. (b) Active capacity taken at 3.1 feet above compromise point. (c) Partly estimated.

(*) Total capacity reported.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	THIS YEAR AS PERCENT OF AVERAGE	FORECAST PERIOD	LAST YEAR	AVERAGE ^b
<u>BEAR RIVER SYSTEM</u>					
Bear at Harer, Idaho	235	91	Apr-Sept	--	258
Bear nr Randolph	66	70	Apr-Sept	--	94
Bear nr Ut-Wyo State Line	105	91	Apr-Sept	159	115
Bear nr Woodruff	95	81	Apr-Sept	180	117
Big Crk nr Randolph, Utah	6	70	Apr-Sept	--	8.6*
Blacksmith Fork nr Hyrum	45	71	Apr-Sept	73	63
Little Bear nr Paradise	20	53	Apr-June	51	38
Logan nr Logan (1)	100	75	Apr-Sept	151	133
Smith's Fork nr Border, Wyoming	106	95	Apr-Sept	134	112
Woodruff Crk nr Woodruff, Utah	12	68	Apr-Sept	- -	17.6*
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	34	94	Apr-Sept	- -	36
East Canyon Crk nr Morgan(2)	24	93	Apr-Sept	28.8	25.6
Lost Crk nr Croydon, Utah	12	67	Apr-Sept	16	18.1
Pineview Reservoir Inflow(3)	80	70	Apr-July	138	115
So. Fork Ogden nr Huntsville	50	81	Apr-Sept	67	62
Rockport Reservoir Inflow(4)	105	90	Apr-July	- -	117*
Weber nr Coalville (5)	112	88	Apr-Sept	- -	128
Weber nr Oakley	94	94	Apr-June	117	100
	115	93	Apr-Sept	167	123
<u>PROVO RIVER & UTAH LAKE</u>					
American Fork nr American Fork	33	100	Apr-Sept	43	33
Hobble Crk nr Springville	20	94	Apr-Sept	- -	21.2
Payson Creek nr Payson	7	96	Apr-Sept	- -	7.3
Provo nr Hailstone (6)	100	92	Apr-Sept	- -	109
Provo below Deer Crk Dam(7)	122	90	Apr-Sept	- -	135
Spanish Fork at Thistle	38	95	Apr-Sept	- -	40
Strawberry Reservoir Inflow(8)	48	96	Apr-Sept	- -	50
Utah Lake Inflow	270	96	Apr-Sept	- -	282
<u>JORDAN RIVER & SALT LAKE</u>					
Big Cottonwood nr SLC	35	90	Apr-Sept	45	39
Little Cottonwood Crk nr SLC	34	89	Apr-Sept	39	38
Parley's Crk nr SLC	13	98	Apr-Sept	14.0	13.3

(1) Includes U.P. & L. Co. tailrace and Logan, Hyde Park & Smithfield Canal. (2) Observed flow plus change in storage in East Canyon Reservoir. (3) Inflow record as computed by U.S. Bureau of Reclamation. (4) Observed flow Weber River near Wanship, Utah, plus change in storage in Wanship Reservoir, plus diversion by Weber-Provo Canal. (5) Includes diversion by Weber-Provo Canal and change in storage in Wanship Reservoir. (6) Observed flow minus diversions thru Duchesne tunnel and Weber-Provo Canal. (7) Observed flow plus change in storage in Deer Creek reservoir, minus diversions thru Duchesne tunnel & Weber-Provo Canal. (8) Change in storage plus diversion thru Strawberry tunnel.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	THIS YEAR AS PERCENT OF AVERAGE	FORECAST PERIOD	LAST YEAR	AVERAGE ^b
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SEVIER RIVER

Chalk Creek nr Fillmore	15	90	Apr-Sept	- -	16.7
Clear Crk nr Sevier(abv. Div.)	14.5	112	Apr-June	- -	12.9*
East Fork Sevier nr Kingston (9)	21	133	Apr-June	- -	15.8
Inflow			Apr-Sept		19.8
Kingston to Vermillion Dam	56	144	Apr-June	- -	39
Vermillion Dam to Gunnison	60	102	Mar-June	- -	59
Salina Crk at Salina(10)	11.5	139	Apr-June	- -	8.3*
Sevier nr Circleville	58	145	Apr-Sept	- -	40 *
Sevier nr Gunnison	45	82	Apr-Sept	42	55
Sevier at Hatch	45	141	Apr-June	- -	32
	63	140	Apr-Sept	- -	45
Sevier nr Kingston	35	167	Apr-June	- -	21.0
	40	157	Apr-Sept	- -	25.5
Sevier below Piute Dam(11)	87	193	Apr-Sept	- -	45

SAN PITCH RIVER

Ephraim Creek nr Ephraim	13	86	Apr-Sept	- -	15.2
Pleasant Crk nr Mt. Pleasant	9.0	93	Apr-Sept	- -	9.7*
Twin Crk nr Mt. Pleasant	4.4	93	Apr-Sept	- -	4.7*

BEAVER RIVER

Beaver nr Beaver	17.5	97	Apr-June	18.1	18.0
	23	95	Apr-Sept	30.0	24.3
Rockyford Reservoir Inflow(12)	5	64	Apr-June	- -	7.8

COAL CREEK

Coal Crk nr Cedar City	19	119	Apr-Sept	- -	16.0
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COLORADO RIVER BASIN

GREEN RIVER TRIBUTARIES IN UTAH

FLAMING GORGE TO DUCHESNE RIVER

Ashley Creek nr Vernal	53	95	Apr-Sept	- -	56
Henry's Fork at Linwood	32	95	Apr-Sept	- -	34

(9) Observed flow plus change in storage in Otter Creek Reservoir. (10) Gage is below diversions near Salina.
 (11) Observed flow plus change in storage in Otter Crk & Piute Reservoirs. (12) Observed flow at Rockyford Dam,
 corrected for change in storage in Rockyford Reservoir.

UTAH STREAMFLOW FORECASTS ^a (1,000 Ac. Ft.)

FORECAST POINT	FORECAST THIS YEAR	THIS YEAR AS PERCENT OF AVERAGE	FORECAST PERIOD	LAST YEAR	AVERAGE ^b
<u>DUCHESNE RIVER</u>					
Duchesne at Provo River (Trail nr Hanna)	33	94	Apr-Sept	- -	35*
Duchesne nr Tabiona(13)	105	92	Apr-Sept	- -	114
Lakefork below Moon Lake(14)	65	90	Apr-Sept	- -	72
Rock Crk nr Mtn. Home	92	90	Apr-Sept	- -	102
Strawberry at Duchesne	71	99	Apr-Sept	99	72
Uinta nr Neola	95	100	Apr-Sept	145	95
Whiterocks nr Whiterocks	63	100	Apr-Sept	94	63
Yellowstone nr Altonah	67	92	Apr-Sept	- -	73
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	11	92	Apr-Sept	- -	11.9
Price nr Heiner(15)	58	85	Apr-Sept	- -	68
Scofield Reservoir Inflow(15)	34	93	Apr-Sept	- -	37
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	51	93	Apr-Sept	- -	55
Ferron Crk nr Ferron	37	88	Apr-Sept	- -	42
Huntington Crk nr Huntington	53	94	Apr-Sept	- -	56
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	20	88	Apr-Sept	- -	22.8*
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	54	126	Apr-June	- -	43
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah(15)	3700	98	Apr-Sept	2241	3789
Flaming Gorge Inflow(3)	920	81	Apr-July	1516	1129
Lake Powell Inflow(3)	7500	98	Apr-July	6045	7692
Green at Green River, Utah(15)	2900	86	Apr-Sept	3494	3368
San Juan nr Bluff, Utah(15)	1130	96	Apr-Sept	762	1172
Navajo Reservoir Inflow	580	97	Apr-Sept	- -	597

(13) Observed flow plus diversion through Duchesne Tunnel. (14) Observed flow plus change in storage in Moon Lake Reservoir. (15) Observed flow plus change in storage reservoir.

GENERAL FOOTNOTES

(a) Runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature will be near average from the present time to the end of the forecast period. Appreciable deviations from normal of temperature and/or precipitation will correspondingly modify these forecasts. The discharge data is taken from preliminary records of the U.S. Geological Survey. (b) 1948-62, 15 year period. *Partly estimated.

PEAK FLOWS (Maximum Mean Daily) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (second feet)	
	FORECAST RANGE	15-YR. AVERAGE 1948-62

Beaver River near Beaver	190 - 230	254
Clear Creek near Sevier	160 - 200	163
Salina Creek near Salina	225 - 275	190
Sevier at Hatch	460 - 580	374

LOW FLOW FORECASTS

FORECAST POINT	DATE STREAMFLOW RECEDES TO LOW FLOW VALUE*	LOW FLOW VALUE	AVERAGE DATE OF LOW FLOW VALUE
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Clear Creek nr Sevier (above Div.)	July 26	15 cfs	July 28
Salina Creek at Salina	June 15	25 cfs	June 10
Sevier at Circleville (Circle Valley)	June 30	90 cfs	June 24
Sevier at Hatch (upper Panguitch Val.)	July 17	100 cfs	July 10

PRIMARY WATER RIGHTS (Percent of)

RIVER SECTION	FORECAST THIS YEAR	AVERAGE DELIVERED DURING 15 YEARS 1948-62	FORECAST PERIOD
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Sevier River

Below Vermillion Dam	64	58	April-Sept.
Circle Valley	80	66	April-Sept.
Panguitch Valley	100	84	April-Sept.
Sevier Valley	58	40	April-Sept.

OTHER SPECIAL FORECASTS

Sevier River

Kingston to Vermillion - Flow above 400 second feet - about 6,000 to 7,000 A.F.

Below Vermillion - Flow above 360 second feet - about 2,000 to 3,000 A.F.

Inflow to Sevier Bridge reservoir from October 1 to March 31 - is expected to be about 30,000 acre feet short of meeting the 89,280 acre foot storage right.

*Following this date, streamflow is expected to fall below "Low Flow Value" shown.

COMPARISON of SNOW COVER

RIVER BASIN or TRIBUTARY WATERSHED	NO. of COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	AVERAGE *

GREAT BASIN

Smith's Fork-Bear River(Wyo)	4	64	76
Mink Creek - Cub River	2	92	90
Logan River	5	71	65
Blacksmith Fork	6	72	64
Malad River(Idaho)	2	99	87
Ogden River	5	101	87
Weber River above Echo Dam	8	80	84
Chalk Creek - Coalville	2	87	95
East Canyon Creek	3	78	77
Farmington Creek	2	94	79
Salt Lake Area	4	80	80
Tooele Area	1	108	89
American Fork River	2	52	79
Provo River above Vivian Park	7	65	78
Strawberry Reservoir Valley	3	73	88
Spanish Fork River	3	77	95
Mt. Nebo Area	2	80	98
Sevier River above Panguitch	3	135	130
East Fork Sevier River	4	201	139
Salina Creek	2	90	107
Mt. Pleasant Area	2	65	85
Ephraim Creek	2	73	83
Beaver River	3	97	86
Coal Creek-Cedar City	3	118	123

COLORADO RIVER BASIN

Duchesne-Strawberry Rivers	5	68	86
Lakefork River	2	61	86
Whiterocks-Uintah Rivers	2	62	88
Price River	5	63	88
San Rafael Tributaries	6	68	86
Escalante River	3	181	123
Virgin River	4	125	126

* Actual or Estimated 1948-62, 15 year Average.

COMPARISON of SNOW COVER

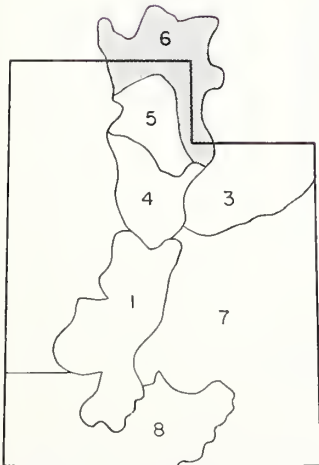
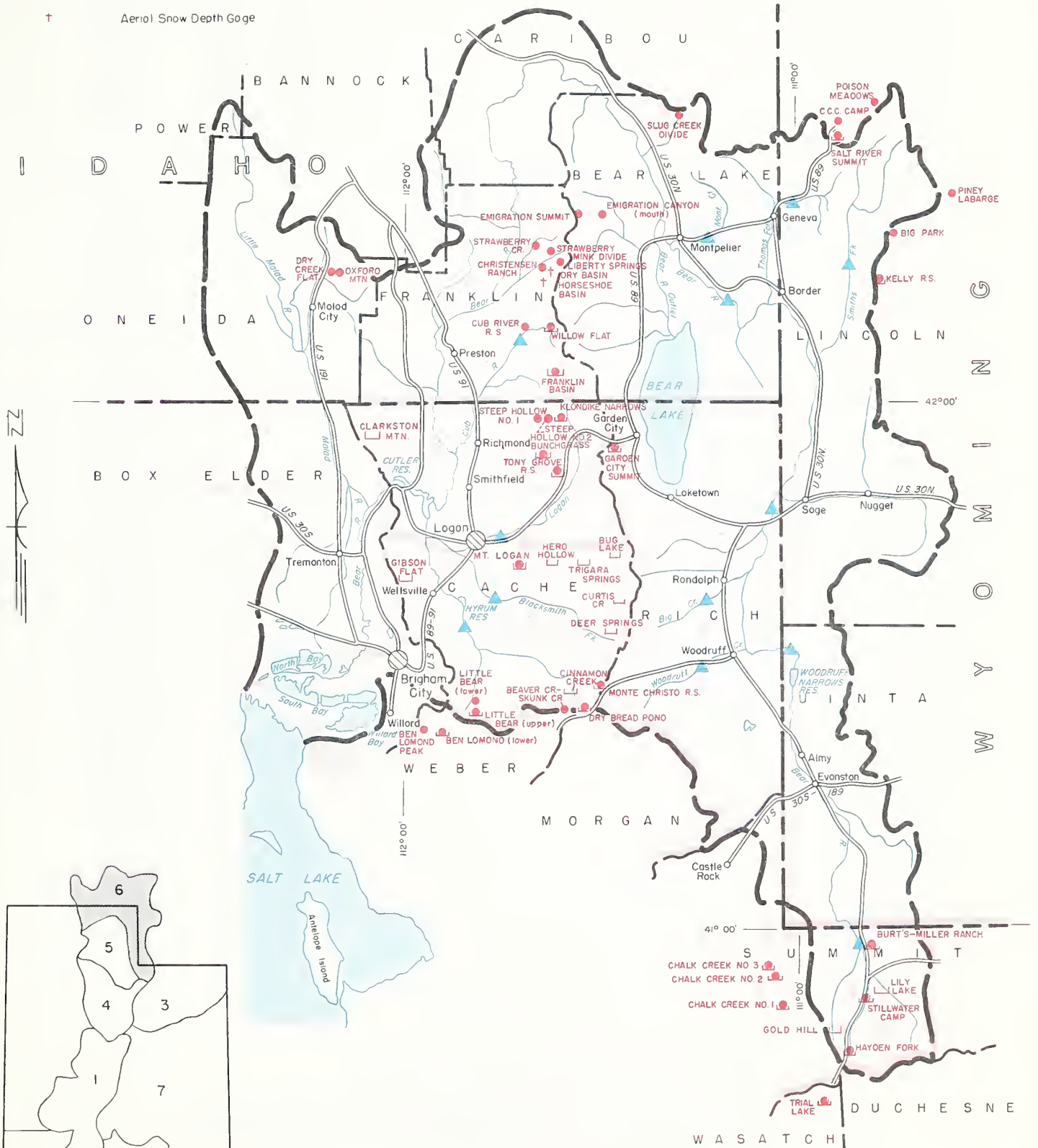
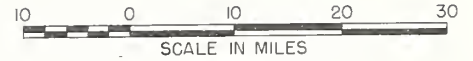
RIVER BASIN or TRIBUTARY WATERSHED	NO. of COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	AVERAGE *

* Actual or Estimated 1948-62, 15 year Average.

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- S.C.S. Storage Gage
- W.B. Storage Gage
- Aerial Snow Depth Gage

BEAR RIVER BASIN



WATERSHED LOCATION

INDEX

NO.	STATE	NAME	SE C.	TWP.	RGE.	ELEV.
UPPER BEAR RIVER (above Harer, Idaho)						
10G11	W	Big Park	7	27N	117W	8,700
10J6	U	Burts-Miller Ranch	19	3N	10E	7,900
10G7	W	CCC Camp x	9	29N	118W	7,500
10J36p	U	Gold Hill	11	1N	9E	10,000
10J7	U	Hayden Fork	1	1S	9E	9,300
10G12	W	Kelly Ranger Station	13	26N	118W	8,200
10J35p	U	Lily Lake	34	2N	10E	9,300
11H12P	U	Monte Cristo R.S.	4	8N	4E	8,960
10G10	W	Piney LaBarge x	19	29N	114W	8,820
10G6	W	Poison Meadows x	29	30N	116W	8,500
10G8P	W	Salt River Summit x	32	29N	118W	7,900
10J17P	U	Stillwater Camp	32	2N	10E	8,550

LOWER BEAR RIVER (below Harer, Idaho)

11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H37p	U	Bug Lake	18	11N	5E	7,950
11H36p	U	Bunchgrass	5	13N	3E	8,400
11G11	I	Christensen Ranch	27	13S	41E	5,600
11H38p	U	Cinnamon Creek	5	8N	3E	7,300
12H1p	U	Clarkston Mtn.	29	14N	2W	6,300
11G12	I	Cub River Ranger Station	5	15S	41E	5,400
11H39p	U	Deer Springs	34	10N	4E	8,400
11G14a	I	Dry Basin	30	13S	42E	7,900
11H13MP	U	Dry Bread Pond	19	8N	4E	8,230
12G4	I	Dry Creek Flat	31	13S	37E	6,350
11G6	I	Emigrant Summit	21	12S	42E	7,350
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6,500
11G8M	I	Franklin Basin	1	16S	41E	8,000
11H7MP	U	Garden City Summit	35	14N	4E	7,600
12H2p	U	Gibson Flat	24	11N	2W	6,100
11H40p	U	Herd Hollow	4	11N	3E	7,000
11G15a	I	Horseshoe Basin	31	13S	42E	8,000
11H1MP	U	Klondike Narrows	10	14N	3E	7,400
11G13	I	Liberty Springs	7	13S	42E	8,420
11H26	U	Little Bear (lower)	15	8N	1E	5,800
11H25P	U	Little Bear (upper)	22	8N	1E	6,550
11H12P	U	Monte Cristo R.S.	3	8N	4E	8,960
11H6	U	Mt. Logan	3	11N	2E	9,000
12G3	I	Oxford Mountain	32	13S	37E	6,800
11G5	I	Slug Creek Divide	15	10S	44E	7,225
11H4	U	Spring Hollow (lower)	26	12N	2E	7,000
11H5	U	Spring Hollow (upper)	35	12N	2E	8,000
11H27	U	Steep Hollow #1	7	14N	3E	8,500
11H28	U	Steep Hollow #2	9	14N	3E	7,700
11G9	I	Strawberry Creek	9	13S	41E	5,800
11G10	I	Strawberry Mink Divide	14	13S	41E	6,800
11H3M	U	Tony Grove Ranger Station	11	13N	3E	6,250
11H41p	U	Trigara Springs	29	12N	4E	7,600
11G4P	I	Willow Flat	2	15S	41E	6,100

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

BEAR RIVER BASIN

UPPER BEAR RIVER (Above Harer, Idaho)

Big Park	10G11	8700	1/27	32	8.5	13.1	10.3
CCC Camp	10G7	7500	1/30	25	5.3	8.4	7.8
Chalk Creek #2 x	11J2	8000	1/29	38	7.3	10.7	8.5
Chalk Creek #3 x	11J3	7500	1/29	27	4.9	4.6	4.7
Monte Cristo R. S.	11H12	8960	1/29	39	10.7	15.3	16.0
Piney-LaBarge #2	10G10	8820	1/28	39	10.6	16.9	12.4
Salt River Summit x	10G8	7900	1/30	31	7.1	11.2	10.2
Smith & Morehouse x	11J4	7600	1/31	33	7.6	7.8	7.8*
Trial Lake x	10J8	9800	1/30	52	12.9	19.1	16.5*

LOWER BEAR RIVER (Below Harer, Idaho)

Beaver Crk-Skunk Creek x	11H14	7150	1/29	27	5.7	8.4	8.0
Christensen Ranch	11G11	5600	2/2	36	7.1	5.0	6.4
Cub River R. S.	11G12	5400	2/1	36	7.6	5.6	6.5
Dry Bread Pond x	11H13	8230	1/29	29	7.3	11.8	11.3
Dry Creek Flat	12G4	6350	1/30	21	4.1	4.3	4.7
Emigrant Summit	11G6	7700	1/31	61	13.8	16.0	- -
Garden City Summit	11H7	7600	1/26	26	6.7	10.6	12.5*
Klondike Narrows	11H1	7400	1/26	30	9.2	13.9	13.5*
Liberty Springs	11G15	8420	No Report		- -	- -	- -
Monte Cristo R. S.	11H12	8960	1/29	39	10.7	15.3	16.0
Oxford Mountain	12G3	6800	1/31	27	5.4	5.2	6.2
Steep Hollow #1	11H27	8500	1/26	50	16.0	23.0	23.0
Steep Hollow #2	11H28	7700	1/26	36	11.2	18.0	17.5
Strawberry Creek	11G9	5800	1/31	41	8.4	6.0	7.7
Strawberry Mink Divide	11G10	6800	2/1	50	11.8	14.3	13.5
Tony Grove R. S.	11H3	6250	1/26	21	5.7	6.1	8.4*
Willow Flat	11G4	6100	2/1	42	9.0	8.5	9.7

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation; Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

a

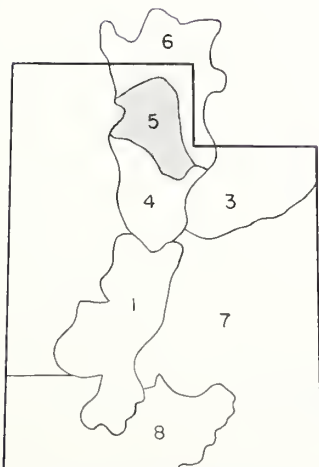
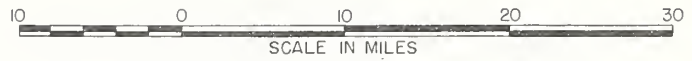
a

BEAR RIVER

Chalk Creek #2 x	8000	1/29	- -	- -	8.05	10.65	75
Chalk Creek #3 x	7500	1/29	- -	- -	6.67	8.75	76
Dry Bread Pond	8230	1/29	- -	- -	8.38	13.95	60
Garden City Summit	7600	1/26	1.85	3.85	8.92	12.10	74
Klondike Narrows	7400	1/29	2.48	4.80	10.54	15.00	70
Monte Cristo #2	8960	1/29	- -	- -	12.95	18.10	72
Sagebrush Flat x	6300	1/29	- -	- -	4.75	9.35	51
Salt River Summit	7900	1/30	1.70	3.65	6.35	11.40	56
Tony Grove R. S. (SCS)	6250	No Report		3.71	- -	11.57	--
Trial Lake x	9800	1/30	4.75	4.50	14.16	15.55	91
Willow Flat	6100	2/1	4.05	- -	12.17	15.40	79

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

WEBER - OGDEN WATERSHEDS



WATERSHED LOCATION

LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- S.C.S. Storage Gage
- W.B. Storage Gage

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
OGDEN RIVER						
11H14M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150
11H8	U	Ben Lomond Peak	3	7N	1E	8,000
11H9P	U	Ben Lomond (lower)	1	7N	1W	5,850
11H30P	U	Ben Lomond Trail	2	7N	1W	6,000
11H35p	U	Causey Dam	34	7N	3E	5,500
11H31	U	Cutler Creek	3	7N	1W	6,780
11H13MP	U	Dry Bread Pond	19	8N	4E	8,230
11H34p	U	Guildler's Peak	21	6N	4E	8,050
11H42p	U	Magpie	29	6N	3E	7,700
11H12P	U	Monte Cristo R.S.	3	8N	4E	8,960
11H10	U	Mt. Ogden	5	5N	1E	8,600
11H15P	U	Sagebrush Flat	21	7N	3E	6,300
11H11P	U	Snow Basin	32	6N	1E	6,420

WEBER RIVER						
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500
11J1	U	Chalk Creek #1	4	1N	8E	9,100
11J2MP	U	Chalk Creek #2	17 & 20	2N	8E	8,000
11J3M	U	Chalk Creek #3	7	2N	8E	7,500
11J12P	U	Farmington Canyon (lower) x	14	3N	1E	6,950
11J11	U	Farmington Canyon (upper) x	26	3N	1E	8,000
11H44p	U	Francis Canyon	29	5N	6E	7,400
11J37p	U	Hardscrabble	16	2N	2E	6,500
11H43p	U	Hoodoo Knoll	22	5N	3E	8,350
11H21P	U	Horse Ridge	1	6N	4E	8,260
11H31	U	Kilfore Creek	20	6N	5E	7,300
11J14	U	Lamb's Canyon x	19	1S	3E	6,600
11H32P	U	Lost Creek	27	6N	5E	6,125
11J15P	U	Parley's Canyon Summit	9 & 10	1S	3E	7,600
11J38p	U	Porcupine	22	3N	7E	8,100
11J6	U	Reddon Mine (lower)	1	2S	6E	8,500
11J5	U	Reddon Mine (upper)	1	2S	6E	9,000
11J39p	U	Sergeant Lakes	17	1N	5E	8,400
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900
11J16P	U	Silver Lake (Brighton) x	35	2S	3E	8,725
11J4P	U	Smith & Morehouse	25	1N	7E	7,600
10J8P	U	Trial Lake x	5	2S	9E	9,800

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
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10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

WEBER-OGDEN WATERSHEDS

OGDEN RIVER

Beaver Creek-Skunk Crk.	11H14	7150	1/29	27	5.7	8.4	8.0 *
Ben Lomond(lower)	11H9	5850	1/30	31	8.8	6.5	10.7 *
Ben Lomond Peak	11H8	8000	1/30	45	13.6	19.1	22.0 *
Ben Lomond Trail	11H30	6000	1/30	28	7.8	8.2	- -
Cutler Creek	11H29	6780	1/30	42	12.2	15.5	- -
Dry Bread Pond	11H13	8230	1/29	29	7.3	11.8	11.3 *
Monte Cristo R. S.	11H12	8960	1/29	39	10.7	15.3	16.0 *
Sagebrush Flat	11H15	6300	1/29	13	2.5	3.4	4.2 *

WEBER RIVER

Beaver Creek R. S.	11J24	7500	1/30	21	4.6	6.6	6.2 *
Chalk Creek #2	11J2	8000	1/29	38	7.3	10.7	8.5 *
Chalk Creek #3	11J3	7500	1/29	27	4.9	4.6	4.7 *
Farmington Canyon(1) x	11J12	6950	2/1	38	12.2	10.6	15.0 *
Farmington Canyon(u) x	11J11	8000	2/1	43	13.1	17.6	16.8 *
Lamb's Canyon x	11J14	6600	1/25	24	6.0	9.4	9.5 *
Parley's Canyon Sumt.	11J15	7500	1/30	36	11.0	10.9	11.6 *
Silver Lake(Brighton) x	11J16	8725	1/31	43	11.9	17.0	16.0
Smith & Morehouse	11J4	7600	1/31	33	7.6	7.8	7.8 *
Soapstone R.S. x	11J25	7800	1/30	32	6.8	9.8	8.0 *
Trial Lake x	10J5	9800	1/30	52	12.9	19.1	16.5 *

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

OGDEN RIVER

Ben Lomond(lower)	5850	1/30	2.47	5.70	15.23	16.30	93
Ben Lomond Trail	6000	1/30	2.54	5.92	16.86	17.05	99
Causey Dam	5500	1/29	1.45	- -	4.87	8.85	55
Dry Bread Pond	8230	1/29	- -	- -	8.38	13.95	60
Monte Cristo #2 x	8960	1/29	- -	- -	12.95	18.10	66
Sagebrush Flat	6300	1/29	- -	- -	4.75	9.35	51

WEBER RIVER

Chalk Creek #2	8000	1/29	- -	= -	8.05	10.65	76
Chalk Creek #3	7500	1/29	- -	- -	6.67	8.75	76
Farmington Guard Sta.	7500	2/1	1.80	5.60	12.41	19.00	65
Farmington Rice	7000	2/1	1.28	5.13	12.30	17.12	72
Parley's Canyon Smt.	7500	1/30	2.69	4.05	11.54	13.50	85
Silver Lake(Brighton) x	8725	1/31	3.91	5.39	13.42	18.37	73
Smith & Morehouse	7600	1/31	3.07	3.60	9.20	11.90	77
Trial Lake x	9800	1/30	4.75	4.50	14.16	15.55	91

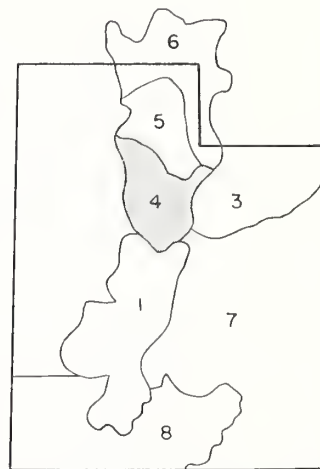
(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

UTAH LAKE, JORDAN RIVER AND TOOEELE VALLEY WATERSHEDS

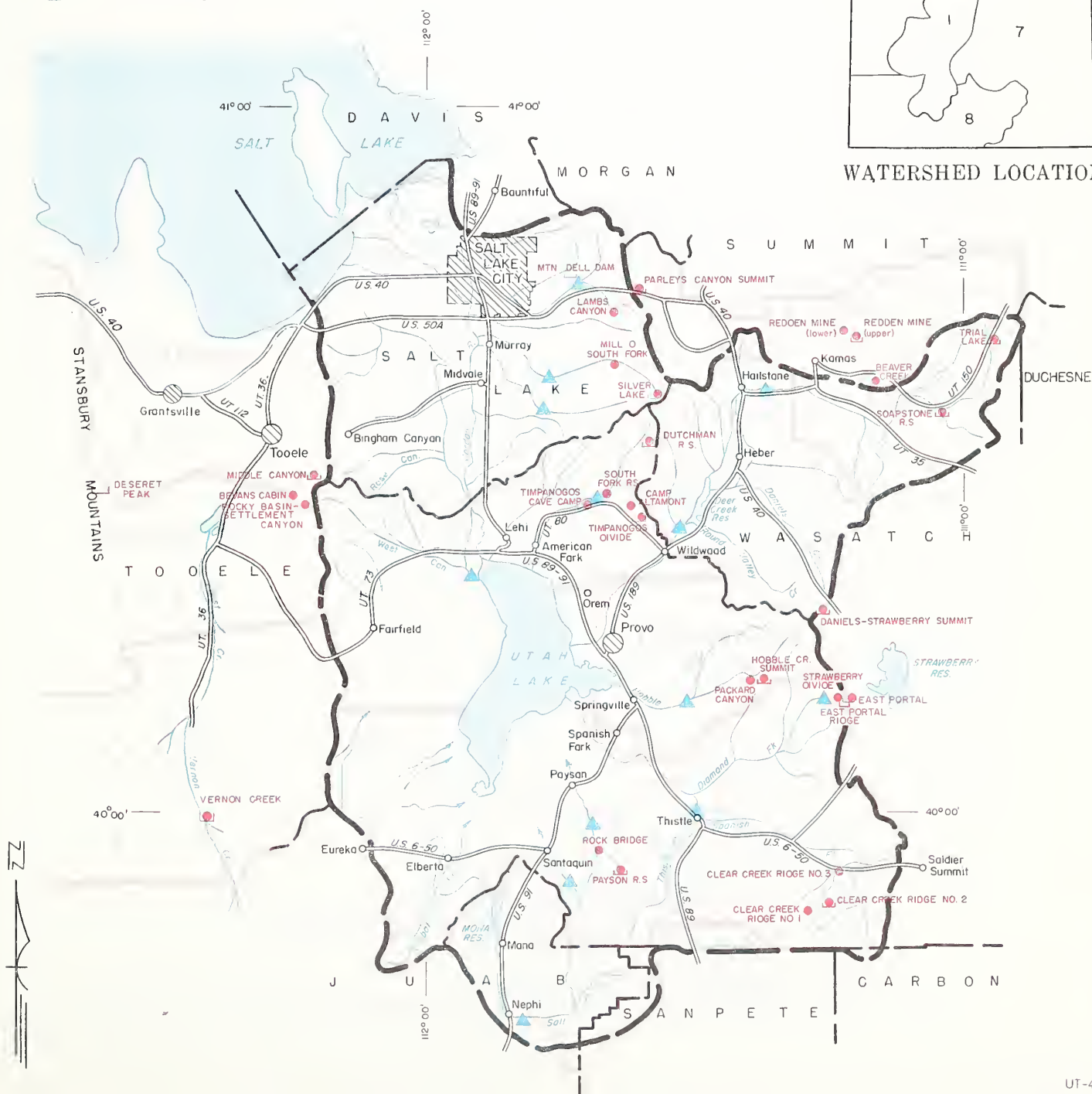


LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- S.C.S. Storage Gage
- W.B. Storage Gage



WATERSHED LOCATION



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PROVO RIVER & UTAH LAKE						
11J20	U	Camp Altamont	29	4S	3E	7,300
11K21	U	Clear Creek Ridge #1	18	11S	6E	9,200
11K22P	U	Clear Creek Ridge #2	9	11S	6E	8,000
11K23	U	Clear Creek Ridge #3	27	10S	6E	6,600
11J23MP	U	Daniels-Strawberry Summit	20	2S	12W	8,000
11J17P	U	Dutchman R.S.	27	3S	3E	7,560
11J7P	U	East Portal	36	7S	6E	7,560
11J22P	U	Hobble Creek Summit	20	7S	5E	7,420
11J31	U	Packard Canyon	21	7S	5E	6,400
11K1P	U	Payson R.S.	30	10S	3E	8,050
11K2	U	Rock Bridge	14	10S	2E	6,750
11J25P	U	Soapstone R.S.	9	3S	8E	7,800
11J19	U	South Fork R.S.	24	4S	2E	6,100
11J8	U	Strawberry Divide	34 & 35	7S	6E	8,000
11J18	U	Timpanogos Cave Camp	27	4S	2E	5,500
11J21P	U	Timpanogos Divide	33	4S	3E	8,140
10J8P	U	Trial Lake	5	2S	9E	9,800
JORDAN RIVER & GREAT SALT LAKE						
12J2	U	Bevan's Cabin	24	4S	4W	6,450
12J5p	U	Deseret Peak	15	4S	7W	9,250
11J12P	U	Farmington Canyon (lower)	14	3N	1E	6,950
11J11	U	Farmington Canyon (upper)	26	3N	1E	8,000
11J14	U	Lamb's Canyon	19	1S	3E	6,600
12J3P	U	Middle Canyon	8	4S	3W	7,000
11J10	U	Mill D South Fork	18	2S	3E	7,400
11J15P	U	Parley's Canyon Summit x	9 & 10	1S	3E	7,600
12J1	U	Rocky Basin-Settlement Canyon	30	4S	3W	8,900
11J16P	U	Silver Lake (Brighton)	35	2S	3E	8,725
12K2P	U	Vernon Creek	21	10S	5W	7,500

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
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10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^a

UTAH LAKE & JORDAN RIVER

UTAH LAKE

Beaver Creek R. S. x	11J24	7500	1/30	21	4.6	6.6	6.2*
Camp Altamont	11J20	7300	1/30	34	9.8	17.9	11.9
Clear Creek Ridge #2	11K22	8000	1/26	29	7.6	10.9	8.5*
Clear Creek Ridge #3	11J3	6600	1/26	20	5.6	4.6	4.7*
Daniels-Strawberry Smt.	11J23	8000	1/31	37	9.4	14.7	10.1
East Portal	11J7	7560	1/30	30	7.2	9.0	8.1
Payson R. S.	11K1	8050	1/29	36	10.2	14.6	10.5*
Rock Bridge	11K2	6750	1/29	27	7.8	8.6	7.8*
Soapstone R.S.	11J25	7800	1/30	32	6.8	9.8	8.0*
South Fork R. S.	11J19	6100	1/29	18	5.4	7.6	5.9
Strawberry Divide	11J8	8000	1/30	40	10.8	14.4	13.3
Timpanogos Cave Camp	11J18	5500	1/29	10	3.3	4.6	2.8
Timpanogos Divide	11J21	8140	1/30	46	13.5	26.8	17.6
Trial Lake	10J8	9800	1/30	52	12.9	19.1	16.5*

JORDAN RIVER

Lamb's Canyon	11J14	6600	1/25	24	6.0	9.4	9.5*
Middle Canyon x	12J3	7000	1/29	26	7.6	7.0	8.5*
Mill D South Fork	11J10	7400	1/31	42	10.8	12.7	12.0*
Parley's Canyon Summit	11J15	7500	1/30	36	11.0	10.9	11.6*
Silver Lake	11J16	8725	1/31	43	11.9	17.0	16.0

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

UTAH LAKE

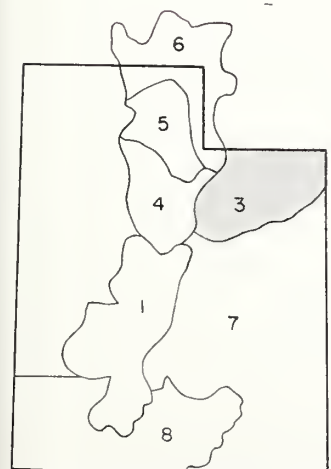
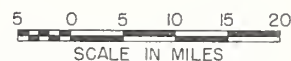
Clear Creek Ridge #2	8000	1/26	- -	- -	7.47	11.00	68
Daniels-Strawberry Smt.	8000	1/31	3.12	3.50	9.53	11.85	80
East Portal Ridge	7800	1/30	2.44	3.50	8.49	11.85	72
Payson R. S.	8050	1/29	1.75	3.50	9.97	11.65	86
Soapstone R. S.	7800	1/30	2.60	3.15	7.53	10.50	72
Timpanogos Divide	8200	1/30	4.35	5.53 ^a	12.65	17.26 ^a	73
Trial Lake	9800	1/30	4.75	4.50	14.16	15.55	91

JORDAN RIVER & TOOELE VALLEY

Middle Canyon	7000	1/30	1.88	3.10	9.20	11.30	81
Mt. Dell Dam	5500	1/31	0.64	2.15	7.39	8.26	89
Parley's Canyon Smt.	7500	1/30	2.69	4.05	11.54	13.50	85
Silver Lake(Brighton)	8725	1/31	3.91	5.39	13.42	18.37	73

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

UINTAH BASIN & DAGGETT S. C. D's.



UT-3c

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
UPPER GREEN RIVER IN UTAH (above Duchesne River)						
9J11a	U	Ashley Twin Lakes	20	1S	19E	10,500
10J21P	U	Black's Fork G.S.-East Fork	25	2N	12E	9,300
10J22P	U	Black's Fork Junction	33	3N	12E	8,925
10J23a	U	Buck Pasture	14	1N	11E	9,700
10J4P	U	Hewinta G.S.	33	3N	13E	9,500
9J8	U	Hickerson Park	24	2N	17E	9,100
10J1	U	Hole-in-the-Rock	13	2N	15E	9,150
10J3	U	Hole-in-the-Rock G.S.	32	3N	16E	8,300
9J2	U	King's Cabin (lower)	23 & 26	1S	21E	8,600
9J1P	U	King's Cabin (upper)	22	1S	21E	8,730
10J2	U	Middle Beaver Creek	31	3N	16E	8,550
9J7P	U	Spirit Lake	10	1N	17E	10,300
10J20A	U	Steel Creek Park	17	2N	13E	9,900
9J12a	U	Windy Park	1	1S	20E	9,400
DUCHESNE RIVER						
10J27a	U	Atwood Basin	21	1S	15E	10,250
10J9	U	Brown Duck Lake	2	2N	6W	10,300
9J9a	U	Chepeta-Whiterocks Lakes	3	1S	17E	10,300
11J32MP	U	Currant Creek	31	1S	10W	7,800
11J23MP	U	Daniels-Strawberry Summit x	20	2S	12W	8,000
11J7P	U	East Portal x	36	7S	6E	7,560
10J26a	U	Five Point Lake	28	4N	5W	11,000
10K1P	U	Indian Canyon	2	11S	10E	9,100
10J19	U	Jackson Park	23	3N	4W	11,300
9J6P	U	Julius Park	20	3N	1E	9,800
10J25a	U	Lakefork Basin	13	4N	7W	11,100
10J10P	U	Lakefork Mountain	2 & 3	2N	5W	10,200
10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
10J12	U	Lakefork Mountain #3	29	2N	4W	8,100
9J5	U	Mosby Mountain	27	2S	18E	9,500
9J3P	U	Paradise Park	7	3N	1E	10,100
10J18P	U	Rock Creek	21	2N	7W	7,900
10J25P	U	Soapstone R.S. x	9	3S	8E	7,800
11J8	U	Strawberry Divide x	34 & 35	7S	6E	8,000
10J8P	U	Trial Lake x	5	2S	9E	9,800
10K2MP	U	White River #1 x	11	10S	8E	8,550

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^a

UINTAH BASIN & DAGGETT SCD's

UINTAH BASIN SCD

Daniels-Strawberry Smt.x	11J23	8000	1/31	37	9.4	14.7	10.1
East Portal x	11J7	7560	1/30	30	7.2	9.0	8.1
Indian Canyon	10K1	9100	1/31	33	7.1	11.9	8.2
Julius Park	9J6	9800	1/30	34	7.5	12.2	8.9*
Lakefork Mountain	10J10	10500	1/29	34	5.6	8.9	7.3*
Lakefork Mountain #2	10J11	8900	1/29	27	5.0	8.3	5.2*
Lakefork Mountain #3	10J12	8100	1/29	25	4.3	7.3	4.2*
Mosby Mountain	9J5	9500	1/30	28	6.2	9.8	6.8*
Paradise Park	9J3	10100	1/30	29	6.1	11.5	8.4*
Soapstone R.S. x	11J25	7800	1/30	32	6.8	9.8	8.0*
Strawberry Divide x	11J8	8000	1/30	40	10.8	14.4	13.3
Trial Lake x	10J8	9800	1/30	52	12.9	19.1	16.5*

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

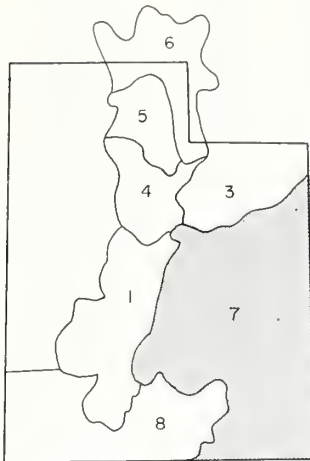
PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE
					a		a
<u>DAGGETT SCD</u>							
Burnt Creek	7900	1/31	1.13	- -	4.77	- -	--
<u>UINTAH BASIN SCD</u>							
Daniels-Strawberry Smt.x	8000	1/31	3.12	3.50	9.53	11.85	80
East Portal Ridge x	7800	1/30	2.44	3.50	8.49	11.85	72
Grizzly Ridge	8500	1/31	1.89	- -	7.23	- -	--
Indian Canyon	9100	1/31	2.09	3.35	7.34	10.15	72
Julius Park	9800	1/30	1.79	2.40	7.53	9.80	77
Lakefork Mountain	10500	1/29	- -	- -	6.37	9.15	70
Moon Lake	8150	1/31	- -	1.67	4.10	5.92	69
Mosby Mountain	9500	1/30	1.46	- -	7.05	- -	--
Paradise Park	10100	1/30	2.25	2.85	7.79	10.50	74
Soapstone R. S. x	7800	1/30	2.60	3.15	7.53	10.50	72
Trial Lake x	9800	1/30	4.75	4.50	14.16	15.55	91

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES

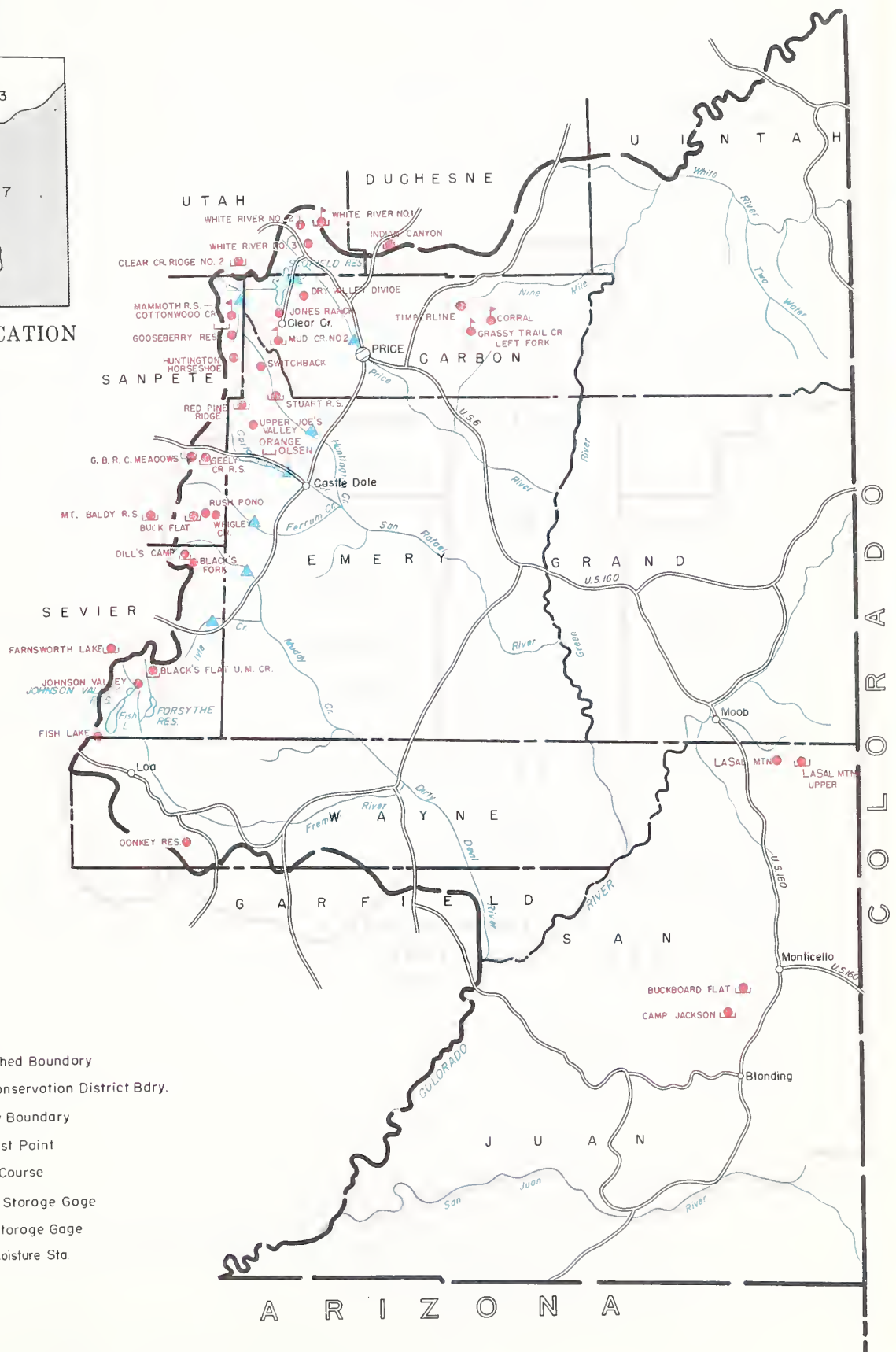
10 0 10 20 30 40
SCALE IN MILES



WATERSHED LOCATION



- LEGEND**
- Watershed Boundary
 - Soil Conservation District Bdry.
 - County Boundary
 - ▲ Forecast Point
 - Snow Course
 - ⌈ S.C.S. Storage Gage
 - ⌋ W.B. Storage Gage
 - ⬮ Soil Moisture Sta.



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PRICE RIVER						
10K5M	U	Corral	32	13S	14E	8,200
11K8	U	Dry Valley Divide	20	12S	8E	7,800
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
10K3M	U	Grassy Trail Creek-Left Fork	2	14S	13E	7,970
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
10K1P	U	Indian Canyon x	2	11S	10E	9,100
11K7	U	Jones Ranch	32	12S	7E	7,600
11K3MP	U	Mammoth R.S. - Cottonwood Creek x	13 & 23	13S	5E	8,800
11K33MP	U	Mud Creek	4	14S	7E	8,300
10K6	U	Timberline	28	13S	13E	9,100
10K2MP	U	White River #1	11	10S	8E	8,550
11K24	U	White River #2	9	10S	8E	7,600
11K25	U	White River #3	30	10S	8E	7,400
SAN RAFAEL RIVER						
11K31P	U	Buck Flat	23	19S	4E	9,400
11K4P	U	Gooseberry Reservoir	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe	12	14S	5E	9,800
11K28P	U	Red Pine Ridge	5	16S	6E	9,400
11K38	U	Rush Pond	24	19S	4E	9,800
11K9	U	Seeley Creek R.S.	25	17S	4E	10,000
11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11K26	U	Switchback	14	14S	6E	8,600
11K29	U	Upper Joe's Valley	21	16S	6E	8,800
11K32	U	Wrigley Creek	27	19S	5E	9,000
MUDDY RIVER						
11K14	U	Black's Fork	34	20S	4E	9,200
11K15	U	Dill's Camp	27	20S	4E	9,200
FREMONT RIVER						
11L4P	U	Black's Flat-U.M. Creek	33	24S	3E	9,250
11L5	U	Donkey Reservoir	9	30S	4E	9,800
11L3	U	Fish Lake	35	26S	1E	8,700
11L6	U	Johnson Valley	24	25S	2E	8,850
SOUTHEASTERN UTAH DRAINAGES						
9M1P	U	Buckboard Flat	36	33S	22E	9,000
9M2P	U	Camp Jackson	22	34S	22E	8,600
9L1	U	LaSal Mountain	5	27S	24E	8,800
9L2P	U	LaSal Mountain (upper)	3	27S	24E	9,400

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

CARBON, EMERY, WAYNE, GRAND & SAN JUAN CO.

PRICE RIVER

Clear Creek Ridge #2 x	11K22	8000	1/26	29	7.6	10.9	8.9
Dry Valley Divide	11K8	7800	1/30	28	7.0	11.0	7.0
Gooseberry Reservoir	11K4	8700	1/29	34	9.7	14.9	11.8*
Indian Canyon	10K1	9100	1/31	33	7.1	11.9	8.2
Jones Ranch	11K7	7600	1/30	23	5.5	6.8	5.1
Mammoth R.S.-Ctnwd. Crk.	11K3	8800	1/29	38	10.7	16.4	12.2*
Mud Creek #2	11K33	8300	1/30	29	6.9	11.4	8.1*

SAN RAFAEL RIVER

Buck Flat	11K31	9400	1/25	23	6.6	10.0	8.4
G.B.R.C. Meadows x	11K10	10000	1/31	37	11.3	16.3	14.5*
Gooseberry Reservoir x	11K4	8700	1/29	34	9.7	14.9	11.8*
Red Pine Ridge	12K28	9400	1/26	31	8.8	13.6	9.8
Rush Pond	11K38	9800	1/25	23	6.3	8.3	7.8
Upper Joe's Valley	11K29	8800	1/26	20	4.9	7.3	5.3
Wrigley Creek	11K32	9000	1/25	22	5.5	7.8	5.8

FREMONT RIVER

Farnsworth Lake x	11L1	9900	1/30	36	9.9	11.6	9.5*
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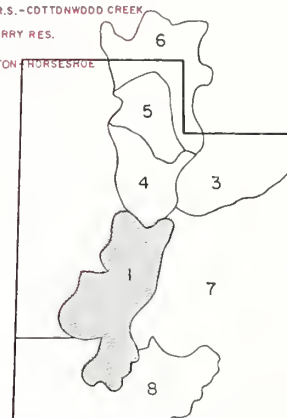
(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)









DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE
<u>PRICE RIVER</u>							
Clear Creek Ridge #2 x	8000	1/26	- -	- -	7.47	11.00	68
Gooseberry Reservoir	8700	1/29	2.42	3.60	9.60	11.75	82
Indian Canyon	9100	1/30	2.09	3.35	7.34	10.15	72
Mammoth R. S.#2	8600	1/29	2.47	3.55	9.74	11.65	84
Mud Creek	8300	1/30	1.30	3.15	6.70	10.30	65
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	1/25	- -	- -	6.70	10.15	66
G.B.R.C. Meadows x	10000	1/31	1.89	3.56	8.95	12.31	73
Gooseberry Reservoir x	8700	1/29	2.42	3.60	9.60	11.75	82
Orange Olsen	7300	1/26	2.85	- -	4.05	- -	--
Red Pine Ridge	9400	1/26	- -	- -	10.90	12.10	90
<u>FREMONT RIVER</u>							
Farnsworth Lake x	9900	1/30	1.65	3.15	9.87	11.15	88

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

2.4



LEGEND

-  Watershed Boundary
-  Soil Conservation District Bdry.
-  County Boundary
-  Forecast Point
-  Snow Course
-  Soil Moisture Station
-  S.C.S. Storage Gage
-  W.B. Storage Gage



INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
UPPER SEVIER RIVER (South of Richfield, Utah)						
12L7P	U	Big Flat x	18	29S	4W	10,290
12L4P	U	Box Creek	33	26S	2W	9,800
12M8	U	Bryce Canyon	36	36S	4W	8,000
12M13P	U	Castle Valley	22	36S	8W	9,700
12M1P	U	Cedar Breaks	2	37S	9W	10,390
12M4P	U	Duck Creek R.S.	11	38S	8W	8,560
11L3	U	Fish Lake x	35	26S	1E	8,700
12M5	U	Harris Flat	24	38S	7W	7,700
12L6P	U	Kimberly Mine	11	27S	5W	9,100
12M6	U	Long Valley Junction x	22	38S	6W	7,500
12M2M	U	Midway Valley	26	37S	9W	9,800
12M7P	U	Panguitch Lake	4 & 5	36S	7W	8,200
12L5	U	Squaw Springs	3	27S	2W	9,300
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3P	U	Widtsoe-Escalante #3	22	34S	1W	9,500
11M4P	U	Widtsoe R.S.	22	34S	2W	7,600

LOWER SEVIER RIVER (Including San Pitch River)						
12L3	U	Bear Canyon	17	22S	3W	7,200
11K13P	U	Beaver Dams	27	19S	3E	8,000
11L1P	U	Farnsworth Lake	27 & 33	23S	2E	9,900
11K11P	U	G.B.R.C. Headquarters	21	17S	4E	8,700
11K10	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000
11L2	U	Gooseberry R.S.	32	23S	2E	8,400
11K4P	U	Gooseberry Reservoir x	25	13S	5E	8,700
11K5	U	Huntington-Horseshoe x	12	14S	5E	9,800
11K3MP	U	Mammoth R.S.-Cottonwood Creek	13	13S	5E	8,800
11K34	U	Middle Fork	16	18S	4E	9,600
11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500
11K2P	U	Oak Creek	9	17S	3W	7,760
12L1P	U	Pine Creek	24	22S	4W	8,700
11K36	U	Rees's Flat	24	15S	2E	7,300
12L11P	U	Shingle Mill	5	22S	3W	6,200
11K35	U	Thistle Flat	24	18S	4E	8,500

BEAVER RIVER						
12L7P	U	Big Flat	18	29S	4W	10,290
12L9P	U	Merchant's Valley	8 & 9	29S	5W	8,200
12L8	U	Otter Lake	1	29S	5W	9,300

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^a

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

UPPER SEVIER RIVER - South of Richfield, Utah

Big Flat x	12L7	10290	1/30	30	7.5	15.0	10.6*
Bryce Canyon	12M8	8000	1/29	34	7.1	2.7	3.8*
Duck Creek R. S.	12M4	8560	1/29	48	11.3	7.8	9.0*
Harris Flat R. S.	12M5	7700	1/29	34	8.5	4.8	5.7*
Long Valley Jct. x	12M6	7500	1/29	27	6.2	3.8	3.2*
Midway Valley	12M2	9800	1/30	53	14.5	17.4	12.5*
Widtsoe-Escalante Smt.	11M1	9500	1/26	26	8.4	3.5	5.1
Widtsoe-Escalante #2	11M2	9500	1/26	24	7.2	5.0	6.8*
Widtsoe-Escalante #3	11M3	9500	1/26	30	9.2	5.8	9.3*
Kimberly Mine	12L6	9100	1/31	35	8.6	8.9	9.3*

LOWER SEVIER RIVER - Including San Pitch River

Farnsworth Lake	11L1	9900	1/30	36	9.9	11.6	9.5*
G.B.R.C. Headquarters	11K11	8700	1/31	29	7.9	10.2	9.0*
G.B.R.C. Meadows	11K10	10000	1/31	37	11.3	16.3	14.5*
Gooseberry R. S.	11L2	8400	1/30	26	6.5	6.8	5.9*
Gooseberry Reservoir x	11K4	8700	1/29	34	9.7	14.9	11.8*
Mammoth R.S.-Ctnwd. Crk.	11K3	8800	1/29	38	10.7	16.4	12.2*
Shingle Mill	12L11	6200	1/29	26	7.2	4.6	5.5

BEAVER RIVER

Big Flat	12L7	10290	1/30	30	7.5	15.0	10.6*
Merchant Valley	12L9	8200	1/30	26	6.0	3.8	5.8
Otter Lake	12L8	9300	1/30	30	7.2	8.6	8.7

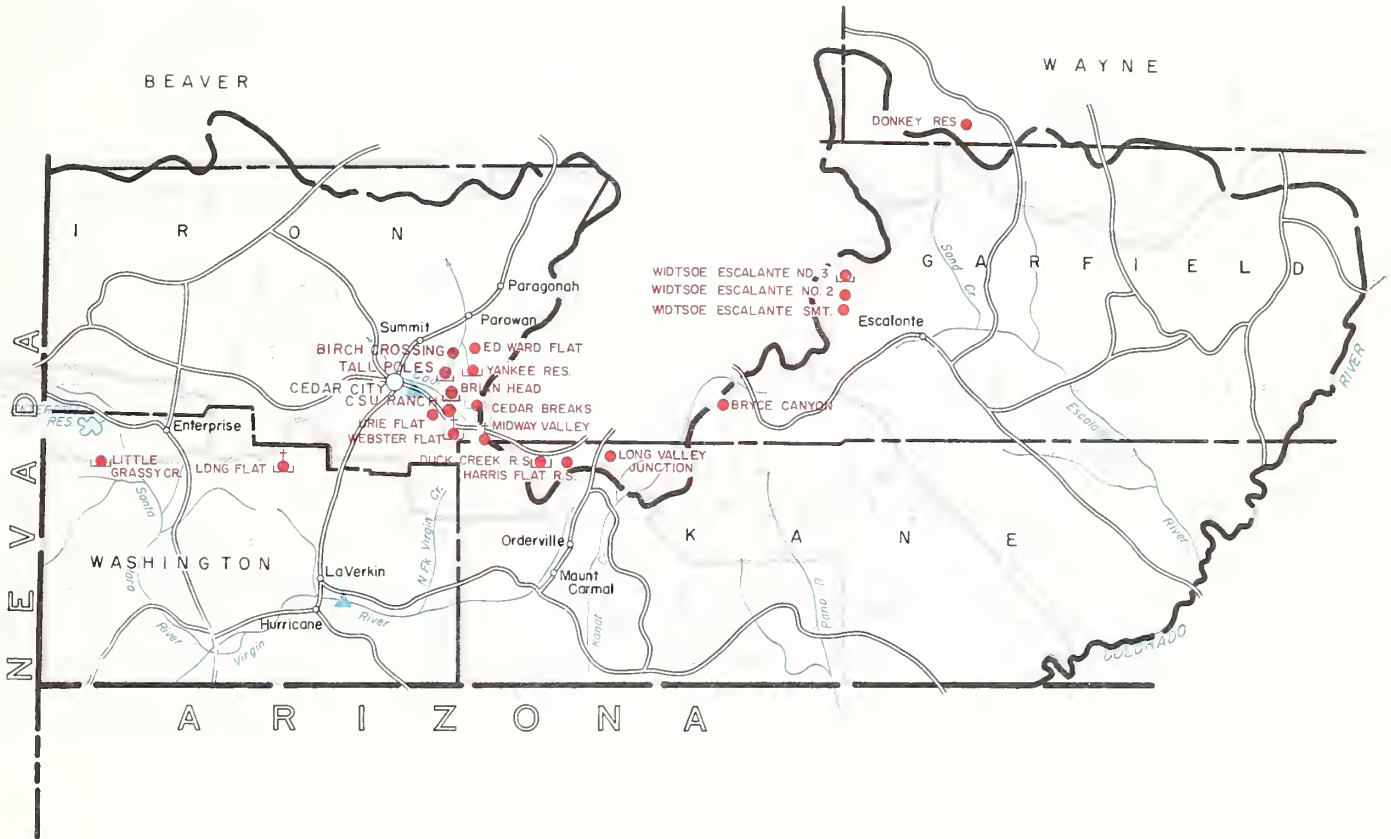
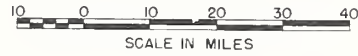
(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation: Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE
		a			a		
<u>SEVIER RIVER</u>							
Big Flat x	10290	1/30	- -	- -	7.66	11.20	68
Duck Creek R. S.	8560	1/29	3.10	3.65	11.80	12.00	98
Farnsworth Lake	9900	1/30	1.65	3.15	9.87	11.15	88
G.B.R.C. Headquarters	8700	1/31	1.23	3.40a	7.63	11.16a	68
G.B.R.C. Meadows	10000	1/31	1.89	3.56a	8.95	12.31a	73
G.B.R.C. Oaks	7655	1/31	0.74	2.14a	5.21	7.73a	67
Gooseberry R.S.	7800	1/30	1.15	1.85	7.34	7.65	96
Gooseberry Reservoir x	8700	1/29	2.42	3.60	9.60	11.75	82
Mammoth R.S. #2 x	8600	1/29	2.47	3.55	9.74	11.65	84
Shingle Mill	6200	1/29	1.05	2.55	7.24	9.05	80
Webster Flat x	9200	1/30	3.15	4.00	11.94	12.90	92
Widtsoe-Escalante #3	9500	1/26	1.10	1.95	7.41	8.20	90
Widtsoe R. S.	7600	1/26	0.83	0.75a	2.95	3.46a	85
Kimberly Mine	9100	1/31	1.79	3.10	9.94	10.95	91
<u>BEAVER RIVER</u>							
Beaver Canyon P.H.	7275	1/31	0.74	2.07	5.57	5.87	95
Merchant Valley	8650	1/30	- -	- -	7.51	- -	--

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Aerial Snow Depth Gage
- S.C.S. Storage Gage
- W.B. Storage Gage



WATERSHED LOCATION

INDEX

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
PARIA RIVER						
12M8	U	Bryce Canyon x	36	36S	4W	8,000
PAROWAN CREEK						
12M16	U	Birch Crossing	23	35S	9W	8,100
12M14	U	Brian Head	10	36S	9W	10,000
12M12	U	Ed Ward Flat	17	35S	8W	8,300
12M15	U	Tall Poles	26 & 35	35S	9W	8,800
12M11P	U	Yankee Reservoir	20	35S	8W	8,700
COAL CREEK						
12M1P	U	Cedar Breaks x	2	37S	9W	10,390
12M17	U	CSU Ranch	18	37S	9W	8,200
12M2M	U	Midway Valley x	26	37S	9W	9,800
12M10	U	Urie Flat	11	37S	10W	8,450
12M3MP	U	Webster Flat x	20	37S	9W	9,200
ENTERPRISE TO NEW HARMONY DRAINAGES						
13M4MP	U	Little Grassy Creek	15	38S	17W	6,100
13M2MP	U	Long Flat	2	38S	14W	8,000
ESCALANTE RIVER						
11M1	U	Widtsoe-Escalante Summit	22	34S	1W	9,500
11M2	U	Widtsoe-Escalante #2	22	34S	1W	9,500
11M3P	U	Widtsoe-Escalante #3	22	34S	1W	9,500
VIRGIN RIVER						
12M1P	U	Cedar Breaks x	2	37S	9W	10,390
12M4P	U	Duck Creek R.S. x	11	38S	8W	8,560
12M5	U	Harris Flat x	24	38S	7W	7,700
12M6	U	Long Valley Junction	22	38S	6W	7,500
12M2M	U	Midway Valley x	26	37S	9W	9,800
12M3MP	U	Webster Flat	20	37S	9W	9,200

LEGEND

Numbering system (example)

10J7	SNOW COURSE ONLY
10J7P	SNOW COURSE AND PRECIPITATION GAGE
10J7M	SNOW COURSE AND SOIL MOISTURE STATION
10J7A	SNOW COURSE AND AERIAL MARKER
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY
10J7p	STORAGE PRECIPITATION GAGE ONLY
x	ADJACENT DRAINAGE

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches) a	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE

EAST GARFIELD, KANE, WASHINGTON & IRON CO.

ESCALANTE RIVER

Widtsoe-Escalante Smt.	11M1	9500	1/26	26	8.4	3.5	5.1
Widtsoe-Escalante #2	11M2	9500	1/26	24	7.2	5.0	6.8*
Widtsoe-Escalante #3	11M3	9500	1/26/	30	9.2	5.8	9.3*

PARIA RIVER

Bryce Canyon x	12M8	8000	1/29	34	7.1	2.7	3.8*
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VIRGIN RIVER & COAL CREEK

CSU Ranch	12M17	8200	1/30	28	7.7	4.5	- -
Duck Creek R. S. x	12M4	8560	1/29	48	11.3	7.8	9.0*
Harris Flat x	12M5	7700	1/29	34	8.5	4.8	5.7*
Long Valley Junction	12M6	7500	1/29	27	6.2	3.8	3.2*
Midway Valley x	12M2	9800	1/30	53	14.5	17.4	12.5*
Urie Flat	12M10	8450	1/30	25	6.6	3.9	4.7*
Webster Flat	12M3	9200	1/30	41	11.2	11.8	9.8*

PAROWAN CREEK

Birch Crossing	12M16	8100	1/29	26	5.5	3.0	- -
Brian Head	12M14	10400	1/29	52	13.3	10.5	- -
Ed Ward Flat	12M12	8300	No Report		- -	- -	- -
Tall Poles	12M15	8800	1/29	43	10.3	6.9	- -
Yankee Reservoir	12M11	8700	No Report		- -	- -	- -

(a) 1948-62, 15 year period. (b) Average of all past record. (x) Adjacent drainage. (A) Aerial observation; Water content estimated. * Estimated 1948-62, 15 year average.

PRECIPITATION DATA (Inches)

DRAINAGE BASIN AND RAIN GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		DATE OF READING	MONTH'S PRECIPITATION	1948 - 62 AVERAGE	THIS YEAR	1948 - 62 AVERAGE	PERCENT OF AVERAGE

ESCALANTE RIVER

Widtsoe-Escalante #3	9500	1/26	1.10	1.95	7.41	8.20	90
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VIRGIN RIVER

Duck Creek R.S.	8560	1/29	3.10	3.65	11.80	12.00	98
Webster Flat	9200	1/30	3.15	4.00	11.94	12.90	92

COAL CREEK

Cedar Breaks	10390	No Report	-	-	-	13.55	--
Webster Flat x	9200	1/30	3.15	4.00	11.94	12.90	92

PAROWAN CREEK

Tall Poles	8800	1/29	1.80	-	9.50	-	--
Yankee Reservoir	8700	No Report	-	-	-	7.35	--

(1) Data supplied by U.S. Forest Service. (2) Data supplied by U.S. Weather Bureau. a - all values estimated except those where symbol "a" occurs. *Adjacent drainage.

Agencies Cooperating in Utah Snow Surveys

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Forest Service
U.S. Department of Commerce
Weather Bureau
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

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Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

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